



## SEQUENCE LISTING

<10> Glimcher, Laurie H.  
Szabo, Susanne, J.

<120> T-BET COMPOSITIONS AND METHODS OF USE THEREOF

<130> HUI-040PC

<140> US 10/008/264

<141> 2001-12-03

<150> PCT/US00/17545

<151> 2000-06-01

<150> US 60/137085

<151> 1999-06-02

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<170> PatentIn Ver. 2.0

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<211> 1608

<212> DNA

<213> Homo sapiens

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<221> CDS

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Pro Met Pro Gly Ser Asp Glu Gly Arg Ala Pro Gly Ala Asp Pro Gln  
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cac cgc tac ttc tac ccg gag ccg ggc gcg cag gac gcg gac gag cgt 144  
His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg  
35 40 45

cgc ggg ggc ggc agc ctg ggg tct ccc tac ccg ggg ggc gcc ttg gtg 192  
Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val  
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ccc gcc ccg ccg agc cgc ttc ctt gga gcc tac gcc tac ccg ccg cga 240  
Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg  
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ccc cag gcg gcc ggc ttc ccc ggc gcg ggc gag tcc ttc ccg ccg ccc 288  
Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro  
85 90 95

gcg gac gcc gag ggc tac cag ccg ggc gag ggc tac gcc gcc ccg gac 336  
Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp  
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ccg cgc gcc ggg ctc tac ccg ggg ccg cgt gag gac tac gcg cta ccc 384

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Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro	
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gcg gga ctg gag gtg tcg ggg aaa ctg agg gtc gcg ctc aac aac cac	432
Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His	
130 135 140	
ctg ttg tgg tcc aag ttt aat cag cac cag aca gag atg atc atc acc	480
Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr	
145 150 155 160	
aag cag gga cgg cgg atg ttc cca ttc ctg tca ttt act gtg gcc ggg	528
Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly	
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Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val	
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gac cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga	624
Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly	
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aag gcc gag ggc agc atg cca gga aac cgc ctg tac gtc cac ccg gac	672
Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp	
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tcc ccc aac aca gga gcg cac tgg atg cgc cag gaa gtt tca ttt ggg	720
Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly	
225 230 235 240	
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Lys Leu Lys Leu Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln	
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atg att gtg ctc cag tcc ctc cat aag tac cag ccc cgg ctg cat atc	816
Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile	
260 265 270	
gtt gag gtg aac gac gga gag cca gag gca gcc tgc aac gct tcc aac	864
Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn	
275 280 285	
acg cat atc ttt act ttc caa gaa acc cag ttc att gcc gtg act gcc	912
Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala	
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tac cag aat gcc gag att act cag ctg aaa att gat aat aac ccc ttt	960
Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe	
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gcc aaa gga ttc cgg gag aac ttt gag tcc atg tac aca tct gtt gac	1008
Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp	
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acc agc atc ccc tcc ccg cct gga ccc aac tgt caa ttc ctt ggg gga	1056
Thr Ser Ile Pro Ser Pro Pro Gly Asn Cys Gln Phe Leu Gly Gly	
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gca gtc agc atg aag cct gca ttc ttg ccc tct gcc cct ggg ccc acc Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr 405 410 415			1248
atg tcc tac tac cga ggc cag gag gtc ctg gca cct gga gct ggc tgg Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp 420 425 430			1296
cct gtg gca ccc cag tac cct ccc aag atg ggc ccg gcc agc tgg ttc Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe 435 440 445			1344
cgc cct atg cgg act ctg ccc atg gaa ccc ggc cct gga ggc tca gag Arg Pro Met Arg Thr Leu Pro Met Glu Pro Gly Pro Gly Gly Ser Glu 450 455 460			1392
gga cgg gga cca gag gac cag ggt ccc ccc ttg gtg tgg act gag att Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile 465 470 475 480			1440
gcc ccc atc cgg ccg gaa tcc agt gat tca gga ctg ggc gaa gga gac Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp 485 490 495			1488
tct aag agg agg cgc gtg tcc ccc tat cct tcc agt ggt gac agc tcc Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser 500 505 510			1536
tcc cct gct ggg gcc cct tct cct ttt gat aag gaa gct gaa gga cag Ser Pro Ala Gly Ala Pro Ser Pro Phe Asp Lys Glu Ala Glu Gly Gln 515 520 525			1584
ttt tat aac tat ttt ccc aac tga Phe Tyr Asn Tyr Phe Pro Asn 530 535			1608

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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His Arg Tyr Phe Tyr Pro Glu Pro Gly Ala Gln Asp Ala Asp Glu Arg
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Arg Gly Gly Gly Ser Leu Gly Ser Pro Tyr Pro Gly Gly Ala Leu Val  
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Pro Ala Pro Pro Ser Arg Phe Leu Gly Ala Tyr Ala Tyr Pro Pro Arg  
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Pro Gln Ala Ala Gly Phe Pro Gly Ala Gly Glu Ser Phe Pro Pro Pro  
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Ala Asp Ala Glu Gly Tyr Gln Pro Gly Glu Gly Tyr Ala Ala Pro Asp  
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Pro Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro  
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Ala Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Asn Asn His  
130 135 140

Leu Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr  
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Lys Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly  
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Leu Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val  
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Asp Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly  
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Lys Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp  
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Ser Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly  
225 230 235 240

Lys Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln  
245 250 255

Met Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile  
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Val Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Asn Ala Ser Asn  
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Thr His Ile Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala  
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Tyr Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe  
305 310 315 320

Ala Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Thr Ser Val Asp  
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Thr Ser Ile Pro Ser Pro Pro Gly Pro Asn Cys Gln Phe Leu Gly Gly  
340 345 350

Asp His Tyr Ser Pro Leu Leu Pro Asn Gln Tyr Pro Val Pro Ser Arg  
355 360 365

Phe Tyr Pro Asp Leu Pro Gly Gln Ala Lys Asp Val Val Pro Gln Ala

370                      375                      380  
 Tyr Trp Leu Gly Ala Pro Arg Asp His Ser Tyr Glu Ala Glu Phe Arg  
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 Ala Val Ser Met Lys Pro Ala Phe Leu Pro Ser Ala Pro Gly Pro Thr  
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 Met Ser Tyr Tyr Arg Gly Gln Glu Val Leu Ala Pro Gly Ala Gly Trp  
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 Pro Val Ala Pro Gln Tyr Pro Pro Lys Met Gly Pro Ala Ser Trp Phe  
                     435                      440                      445  
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 Gly Arg Gly Pro Glu Asp Gln Gly Pro Pro Leu Val Trp Thr Glu Ile  
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 Ala Pro Ile Arg Pro Glu Ser Ser Asp Ser Gly Leu Gly Glu Gly Asp  
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 Ser Lys Arg Arg Arg Val Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser  
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 Pro Met Pro Ser Asp Glu Gly Arg Gly Pro Gly Ala Asp Gln Gln His  
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 cgt ttc ttc tat ccc gag ccg ggc gca cag gac ccg acc gat cgc cgc 144  
 Arg Phe Phe Tyr Pro Glu Pro Gly Ala Gln Asp Pro Thr Asp Arg Arg  
                     35                    40                    45  
 gca ggt agc agc ctg ggg acg ccc tac tct ggg ggc gcc ctg gtg cct 192  
 Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro  
                     50                    55                    60  
 gcc gcg ccg ggt cgc ttc ctt gga tcc ttc gcc tac ccg ccc cgg gct 240  
 Ala Ala Pro Gly Arg Phe Leu Gly Ser Phe Ala Tyr Pro Pro Arg Ala

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cag gtg gct ggc ttt ccc ggg cct ggc gag ttc ttc ccg ccg ccc gcg Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala	85	90	288 95
ggt gcg gag ggc tac ccg ccc gtg gat ggc tac cct gcc cct gac ccg Gly Ala Glu Gly Tyr Pro Pro Val Asp Gly Tyr Pro Ala Pro Asp Pro	100	105	336 110
cgc gcg ggg ctc tac cca ggg ccg cgc gag gac tac gca ttg ccc gcg Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala	115	120	384 125
ggg ttg gag gtg tct ggg aag ctg aga gtc gcg ctc agc aac cac ctg Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu	130	135	432 140
ttg tgg tcc aag ttc aac cag cac cag aca gag atg atc atc act aag Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys	145	150	480 160
caa gga cgg cga atg ttc cca ttc ctg tcc ttc acc gtg gcc ggg ctg Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly Leu	165	170	528 175
gag ccc aca agc cat tac agg atg ttt gtg gat gtg gtc ttg gtg gac Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp	180	185	576 190
cag cac cac tgg cgg tac cag agc ggc aag tgg gtg cag tgt gga aag Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys	195	200	624 205
gca gaa ggc agc atg cca ggg aac cgc tta tat gtc cac cca gac tcc Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser	210	215	672 220
ccc aac acc gga gcc cac tgg atg cgc cag gaa gtt tca ttt ggg aag Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys	225	230	720 240
cta aag ctc acc aac aac aag ggg gct tcc aac aat gtg acc cag atg Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met	245	250	768 255
atc gtc ctg cag tct ctc cac aag tac cag ccc cgg ctg cac atc gtg Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val	260	265	816 270
gag gtg aat gat gga gag cca gag gct gcc tgc agt gct tct aac aca Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr	275	280	864 285
cac gtc ttt act ttc caa gag acc cag ttc att gca gtg act gcc tac His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr	290	295	912 300
cag aac gca gag atc act cag ctg aaa atc gac aac aac ccc ttt gcc Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala	305	310	960 315 320



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 35 40 45  
 Ala Gly Ser Ser Leu Gly Thr Pro Tyr Ser Gly Gly Ala Leu Val Pro  
 50 55 60  
 Ala Ala Pro Gly Arg Phe Leu Gly Ser Phe Ala Tyr Pro Pro Arg Ala  
 65 70 75 80  
 Gln Val Ala Gly Phe Pro Gly Pro Gly Glu Phe Phe Pro Pro Pro Ala  
 85 90 95  
 Gly Ala Glu Gly Tyr Pro Pro Val Asp Gly Tyr Pro Ala Pro Asp Pro  
 100 105 110  
 Arg Ala Gly Leu Tyr Pro Gly Pro Arg Glu Asp Tyr Ala Leu Pro Ala  
 115 120 125  
 Gly Leu Glu Val Ser Gly Lys Leu Arg Val Ala Leu Ser Asn His Leu  
 130 135 140  
 Leu Trp Ser Lys Phe Asn Gln His Gln Thr Glu Met Ile Ile Thr Lys  
 145 150 155 160  
 Gln Gly Arg Arg Met Phe Pro Phe Leu Ser Phe Thr Val Ala Gly Leu  
 165 170 175  
 Glu Pro Thr Ser His Tyr Arg Met Phe Val Asp Val Val Leu Val Asp  
 180 185 190  
 Gln His His Trp Arg Tyr Gln Ser Gly Lys Trp Val Gln Cys Gly Lys  
 195 200 205  
 Ala Glu Gly Ser Met Pro Gly Asn Arg Leu Tyr Val His Pro Asp Ser  
 210 215 220  
 Pro Asn Thr Gly Ala His Trp Met Arg Gln Glu Val Ser Phe Gly Lys  
 225 230 235 240  
 Leu Lys Leu Thr Asn Asn Lys Gly Ala Ser Asn Asn Val Thr Gln Met  
 245 250 255  
 Ile Val Leu Gln Ser Leu His Lys Tyr Gln Pro Arg Leu His Ile Val  
 260 265 270  
 Glu Val Asn Asp Gly Glu Pro Glu Ala Ala Cys Ser Ala Ser Asn Thr  
 275 280 285  
 His Val Phe Thr Phe Gln Glu Thr Gln Phe Ile Ala Val Thr Ala Tyr  
 290 295 300  
 Gln Asn Ala Glu Ile Thr Gln Leu Lys Ile Asp Asn Asn Pro Phe Ala  
 305 310 315 320



Lys Gly Phe Arg Glu Asn Phe Glu Ser Met Tyr Ala Ser Val Asp Thr  
325 330 335

Ser Val Pro Ser Pro Pro Gly Pro Asn Cys Gln Leu Leu Gly Gly Asp  
340 345 350

Pro Phe Ser Pro Leu Leu Ser Asn Gln Tyr Pro Val Pro Ser Arg Phe  
355 360 365

Tyr Pro Asp Leu Pro Gly Gln Pro Lys Asp Met Ile Ser Gln Pro Tyr  
370 375 380

Trp Leu Gly Thr Pro Arg Glu His Ser Tyr Glu Ala Glu Phe Arg Ala  
385 390 395 400

Val Ser Met Lys Pro Thr Leu Leu Pro Ser Ala Pro Gly Pro Thr Val  
405 410 415

Pro Tyr Tyr Arg Gly Gln Asp Val Leu Ala Pro Gly Ala Gly Trp Pro  
420 425 430

Val Ala Pro Gln Tyr Pro Pro Lys Met Ser Pro Ala Gly Trp Phe Arg  
435 440 445

Pro Met Arg Thr Leu Pro Met Asp Pro Gly Leu Gly Ser Ser Glu Glu  
450 455 460

Gln Gly Ser Ser Pro Ser Leu Trp Pro Glu Val Thr Ser Leu Gln Pro  
465 470 475 480

Glu Pro Ser Asp Ser Gly Leu Gly Glu Gly Asp Thr Lys Arg Arg Arg  
485 490 495

Ile Ser Pro Tyr Pro Ser Ser Gly Asp Ser Ser Ser Pro Ala Gly Ala  
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Pro Ser Pro Phe Asp Lys Glu Thr Glu Gly Gln Phe Tyr Asn Tyr Phe  
515 520 525

Pro Asn  
530